

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF

1 Campus Drive Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Conventional Built-Up-Roof System for Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0930.08 and consists of pages 1 through 39. The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 1 of 39

ROOFING SYSTEM APPROVAL

Category:RoofingSub-Category:BURMaterial:FiberglassDeck Type:ConcreteMaximum Design Pressure:-457.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	Dimensions	Test Specification	Product <u>Description</u>
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Type IV asphalt impregnated glass felt with asphalt coating.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGLAS [®] FlexPly [™] 6	39.37" (1 meter) Wide	ASTM D2178	Type VI asphalt impregnated glass felt with asphalt coating.
GAFGLAS® FlexPly 6 5L	39.37" (1 meter) Wide	ASTM D2178	Type VI asphalt impregnated glass felt with asphalt coating. Used for five ply applications.
GAFGLAS® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated glass mat base sheet.
Tri-Ply® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated glass mat base sheet.
GAFGLAS® #80 Ultima [™] Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated glass mat base sheet.
GAFGLAS® Stratavent® Eliminator Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Fiberglass base sheet coated on both sides with asphalt and factory perforated. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS [®] EnergyCap [™] BUR Mineral Surface Cap Sheet	39.37" (1 meter) wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules and factory applied EnergyCote [™]
Ruberoid® 20	39.37" (1 meter) Wide	ASTM D6163	SBS polymer-modified asphalt base sheet reinforced with a glass fiber mat.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 2 of 39

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
Ruberoid® Mop Smooth	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and smooth surfaced.
Ruberoid® Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and smooth surfaced.
Ruberoid® Dual Smooth	39.37" (1 meter) Wide	ASTM D6162	Fiberglass/polyester/composite mat coated with an SBS polymer-modified asphalt smooth-surfaced and used only as a base/ply sheet.
Ruberoid® Mop Plus Smooth	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and smooth surfaced.
Matrix [™] 307 Premium Asphalt Primer	3, 5, 55 gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt based roofing materials.
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Acrylic, water based elastomeric membrane system designed to protect various types of roof surfaces.
Topcoat® Surface Seal SB	1, 5, 55 gallons	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant used to protect and restore aged roof surfaces and to increase roof reflectivity.
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer used to block asphalt bleed-through.
Topcoat® FlexSeal	1, 5 gallons or 1 qt. tube	Proprietary	Solvent based flashing compound for gutters and other detailing.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 3 of 39

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard [™] Polyiso Insulation	Polyisocyanurate foam insulation	` '
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] Tapered PolyIso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RN Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RA Composite Polyiso Insulation.	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF
EnergyGuard [™] Perlite Roof Insulation	Perlite insulation board	GAF
EnergyGuard [™] Perlite Recover Board	Perlite recover board	GAF
Structodek® High Density Fiberboard	High density fiber board	Blue Ridge Fiberboard, Inc.
Securock® Gypsum-Fiber Roof Board	Gypsum board	USG
DensDeck® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC
DensDeck® Prime® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC
DensDeck® DuraGuard® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC

APPROVED FASTENERS:

TABLE 3

Fastener	Product	Product		Manufacturer
Number	Name	Description	Dimensions	(With Current NOA)
1.	N/A	N/A	N/A	N/A



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15 Page 4 of 39

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corp.	2B8A4.AM	FM 4470	07/02/97
1	3B9Q1.AM	FM 4470	01/08/98
	0D0A8.AM	FM 4470	07/09/99
	0D1A8.AM	FM 4470	07/29/94
	0Y9Q5.AM	FM 4470	04/01/98
	3017250	FM 4470	05/05/04
	3036980	FM 4470	08/14/09
	3035140	FM 4470	08/10/09
	3023458	FM 4470	07/18/06
	3010215	FM 4470	04/01/01
	3034312	FM 4470	04/09/09
	3042887	FM 4470	11/14/11
	3032856	FM 4470	11/24/08
	3040738	FM 4470	05/18/12
	3046388	FM 4470	09/24/12
	3042887	FM 4470	11/14/11
Underwriters Laboratories, Inc.	R1306	UL 790	07/22/13
Trinity ERD	G6850.08.07-1	ASTM D3909	08/13/07
·	G34140.04.11-4	ASTM D4601	04/25/11
	G30250.02.10-3-R1	ASTM D3909	11/26/12
	G40630.01.14-2A-1	ASTM D6164	01/07/14
	G34140.04.11-5-R1	ASTM D4897	10/18/13
	G34140.04.11-2	ASTM D6163	04/25/11
	C8500SC.11.07	ASTM D6862	11/30/07
	G31360.03.10	ASTM D6164	03/31/10
	G33470.01.11	ASTM D6164	01/13/11
PRI Construction Materials	GAF-314-02-01	ASTM D2178	08/23/11
Technologies LLC	GAF-315-02-01	ASTM D2178	08/23/11
	GAF-082-02-01	ASTM D6083	05/09/06
	GAF-084-02-01	ASTM D6083	05/09/06
	GAF-369-02-01	ASTM D1289	10/23/12
	GAF-464-02-01	ASTM D1289	02/06/14
	GAF-499-02-01	ASTM D6083	03/12/14
	GAF-245-02-01	ASTM D6083	05/07/06
	GAF-500-02-01	ASTM D6083	03/12/14
Atlantic & Caribbean Roof	11-048	TAS 114-D	08/10/11
Consulting. LLC	11-049	TAS 114-D	08/10/11
Momentum Technologies, Inc	AX04C9A	ASTM D6162	06/05/09



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 5 of 39

APPROVED ASSEMBLIES:

Membrane Type: BUR

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(1):** Insulation layer adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²EnergyGuard™ RA Composite Polyiso InsulationN/AN/AMinimum 1.75" thickN/AN/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: Two or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(**Optional**) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.

2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gals./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -140 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 6 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): Insulation layer adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

EnergyGuard[™] Perlite Roof Insulation, EnergyGuard[™] Perlite Recover Board

Minimum 1" thick N/A N/A

Structodek® High Density Fiber Board, DensDeck® Prime® Roof Board, DensDeck® DuraGuard® Roof Board Securock® Gypsum-Fiber Roof

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPlyTM 6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(**Optional**) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 7 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gals./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -270 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 8 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): Insulation layer adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid®

(Optional) 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or

Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RH Polyiso Insulation,

EnergyGuard[™] RN Polyiso Insulation

Minimum 2" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Perlite Roof Insulation, EnergyGuard[™] Perlite Recover Board, Securock[®] Gypsum-Fiber Roof Board, DensDeck[®] Prime[®] Roof Board, DensDeck[®] DuraGuard[®] Roof Board

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™]6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(**Optional**) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 9 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -322.5 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 10 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

 $\textbf{System Type A(4):} \ Insulation \ layers \ adhered \ with \ approved \ asphalt.$

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid® (Optional) 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or

20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or Matrix™ 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ Perlite Recover Board, Securock® Gypsum-Fiber Roof Board, DensDeck® Prime® Roof Board, DensDeck® DuraGuard® Roof Board

Minimum 0.75" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly[™] 6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS FlexPlyTM 6 adhered in a full

mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(Optional) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.

- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -135 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 11 of 39

Concrete Decks, Insulated Deck Type 3I:

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(5): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, Ruberoid[®] Vapor Barrier:

(Optional) 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or

Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Laver Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Polviso Insulation, EnergyGuard™ RH Polviso Insulation, EnergyGuard™ RA Polviso Insulation, EnergyGuard™RN Polyiso Insulation, EnergyGuard™RA Composite Polyiso Insulation

Minimum 1.25" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ Perlite Recover Board, Securock® Gypsum-Fiber Roof

Board, DensDeck® Prime® Roof Board

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, **Base Sheet:**

> GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a **Plv Sheet:**

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or **Cap Sheet:**

GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of approved (Optional)

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

MIAMI DADE COUNTY APPROVED

NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 12 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -125 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 13 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(6):** Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid® (Optional) 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or

20 or Ruberoid[®] Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Structodek® High Density Fiber Board, Securock® Gypsum-Fiber Roof Board, DensDeck® DuraGuard® Roof Board, DensDeck® Prime® Roof Board

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). Apply layers of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(**Optional**) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq

- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -140 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 14 of 39

Concrete Decks, Insulated Deck Type 3I:

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(7):** Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, Ruberoid[®] Vapor Barrier:

20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or (Optional)

Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™RN Polyiso Insulation, EnergyGuard™RA Composite Polyiso Insulation Minimum 1.25" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Structodek® High Density Fiber Board, Securock® Gypsum-Fiber Roof Board, DensDeck® DuraGuard® Roof

Board, DensDeck® Prime® Roof Board

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, **Base Sheet**:

> GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or Cap Sheet: (Optional)

GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

MIAMI-DADE COUNTY APPROVED

NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 15 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -162.5 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 16 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid® Vapor Barrier:

20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or (Optional) Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RA Composite Polyiso Insulation Minimum 1.25" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ft²

EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ Perlite Recover Board, Securock® Gypsum-Fiber Roof Board, DensDeck® Prime® Roof Board, DensDeck® DuraGuard® Roof Board Minimum 0.75" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, **Base Sheet:**

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or Cap Sheet: (Optional)

GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 17 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -157.5 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 18 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(9): Anchor sheet adhered with approved asphalt; all layers of insulation adhered with approved

asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly[™] 6, Vapor Barrier: Ruberoid[®] 20 or Ruberoid[®] Dual Smooth mopped directly to deck primed with ASTM D41 (Optional)

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation, EnergyGuard[™] RH Polyiso

Insulation, EnergyGuard[™] RN Polviso Insulation,

Minimum 1" thick N/A N/A

EnergyGuard™ Perlite Roof Insulation, EnergyGuard™ Perlite Recover Board, Securock® Gypsum-Fiber Roof Board, DensDeck® DuraGuard® Roof Board, DensDeck® Prime® Roof Board

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet laid dry or a layer of EnergyGuard Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate insulation applications.

Install one or ply of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® **Anchor Sheet:** #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20. (Optional)

Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid[®] Dual Smooth directly to primed deck adhere with any approved mopping asphalt

applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, **Base Sheet:** (Optional)

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus

Smooth or Ruberoid® Dual Smooth directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry, followed by a

mopped ply sheet listed below.



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 19 of 39

Ply Sheet: Two or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(**Optional**) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.

2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -90 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 20 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(10): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, Ruberoid[®] 20 or Ruberoid[®] Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard™ RA Polyiso Insulation		
Minimum 1.25" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck® DuraGuard Roof Board, DensDeck® Prime	[®] Roof Board, Securock [®] Gypsum-Fib	er Roof Board
Minimum 0.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or MatrixTM 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet loose laid dry.

Ply Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance

with manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

Cravel or also applied at 400 lbs /sg and 200 lbs /sg ragne

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.

- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

(Optional)

Pressure: -187.5 psf. (See General Limitation #9)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 21 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(11): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RH Polyiso Insulation,

EnergyGuard[™] RN Polyiso Insulation

Minimum 1.25" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

DensDeck® DuraGuard® Roof Board, DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix^m 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet, loose laid dry.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(Optional) GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.

- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -240 psf. (See General Limitation #9)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 22 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(12):** Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Ruberoid®

(Optional) 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or

Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation,

EnergyGuard[™] RA Polyiso Insulation, EnergyGuard[™] RA Tapered Polyiso Insulation,

EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation,

EnergyGuard[™] RN Tapered Polyiso Insulation,

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Perlite Recovery Board, Structodek[®] High Density Fiberboard, DensDeck[®] DuraGuard[®] Roof

Board, DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board

Minimum 0.5" thick N/A N/A

 $Energy Guard^{^{TM}}\ Perlite\ Roof\ Insulation$

Minimum 0.75" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: Install or more plies of GAFGLAS® #75 Base Sheet or Tri-Ply® #75 Base Sheet, GAFGLAS® #80

Ultima Base Sheet, Ruberoid[®] 20, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus Smooth or Ruberoid[®] Dual Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: Any two plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPlyTM 6 adhered in a full

mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(Optional) GAFGLAS[®] EnergyCap^{$^{\text{TM}}$} BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 23 of 39

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure:

-172.5 psf. with EnergyGuard[™] Perlite Recovery Board (See General Limitation #9.)

-90 psf. with Structodek® or EnergyGuard™ Perlite Roof Insulation (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 24 of 39

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(13): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6,

(Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso

Insulation, EnergyGuard[™] RN Polyiso Insulation

Minimum 2" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). Base insulation layer shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², OlyBond 500® Adhesive, OlyBond 500® Green Adhesive or LRF Adhesive M. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
Securock® Gypsum-Fiber Roof Board
Minimum 0.75" thick N/A N/A

Note: Top Insulation adhered to the base insulation in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², OlyBond 500[®] Adhesive, OlyBond 500[®] Green Adhesive or LRF Adhesive M. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, GAFGLAS[®]

#75 Base Sheet or Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20,

Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or

Ruberoid[®] Dual Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions and broomed

in.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet

(Optional) or GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance

with manufacturer's instructions.

NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 25 of 39



Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -225 psf. (See General Limitation #9)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 26 of 39

Deck Type 2I: Structural Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(14):** Insulation layers adhered with approved asphalt.

All General and System limitations apply

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT

range and at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners (Table 3) Fastener (Table 3) Density/ft² EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation

Minimum 0.5" thick

N/A

N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). One or more layers of insulation layers shall be adhered to the deck or optional vapor barrier (when present) in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² per layer; with a maximum 12 inch insulation thickness. The base layer may be flat profiled or tapered. Intermediate layers (optional) are flat profiled when present. The top layer (optional) may be either flat profiled or tapered when present. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Fasteners (Table 3) Density/ft²

Structodek® High Density Fiberboard, EnergyGuard™ Perlite Recover Board
Minimum 0.5" thick N/A N/A

EnergyGuard™ Perlite Roof Insulation
Minimum 0.75" thick N/A N/A

Securock® Gypsum-Fiber Roof Board, DensDeck® Roof Board, DensDeck® DuraGuard® Roof Board,

DensDeck® Prime® Roof Board
Minimum 0.25" thick
N/A
N/A

Note: Top Insulation Layer is fully adhere in hot asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Install one or more plies of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet,

(Optional) GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop

Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

Ply Sheet: Two or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered

in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40

lbs./sq. in accordance with manufacturer's instructions.

MIAMI-DADE COUNTY
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NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 27 of 39 **Cap Sheet:** (Optional)

One ply of GAFGLAS[®] Mineral Surfaced Cap Sheet, Tri-Ply[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
- 3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -150 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15

Page 28 of 39

Deck Type 2I: Structural Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(15):** Insulation layers adhered with approved asphalt.

All General and System limitations apply

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] Tapered Polyiso Insulation

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). One or more layers of insulation layers shall be adhered to the deck or optional vapor barrier (when present) in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² per layer; with a maximum 12 inch insulation thickness. The base layer may be flat profiled or tapered. Intermediate layers (optional) are flat profiled when present. The top layer (optional) may be either flat profiled or tapered when present. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation LayerFasteners
(Table 3)Fastener
Density/ft²Structodek® High Density Fiberboard, EnergyGuard™ Perlite Recover Board
Minimum 0.5" thickN/AN/AEnergyGuard™ Perlite Roof Insulation
Minimum 0.75" thickN/AN/ASecurock® Gypsum-Fiber Roof Board, DensDeck® Roof Board, DensDeck® DuraGuard® Roof Board,

DensDeck® Prime® Roof Board

DensDeck® Prime® Roof Board

Minimum 0.25" thick N/A N/A

Note: Top Insulation Layer is fully adhere in hot asphalt at applied within the EVT range and at a rate of 20-25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Install one or more plies of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS®

#80 Ultima Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: Two or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 29 of 39 **Cap Sheet:** Apply a flood coat of hot asphalt applied at 60 lbs./sq. followed by gravel applied at 400 lbs./sq.

or slag applied at a rate of 300 lbs./sq.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or 1.

Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

2 Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -150 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 30 of 39

Deck Type 2I: Structural Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(16):** Insulation layers adhered with approved asphalt.

All General and System limitations apply

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners (Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). One or more layers of insulation layers shall be adhered to the deck or optional vapor barrier (when present) in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² per layer; with a maximum 12 inch insulation thickness. The base layer may be flat profiled or tapered. Intermediate layers (optional) are flat profiled when present. The top layer (optional) may be either flat profiled or tapered when present. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Fasteners	Fastener
	(Table 3)	Density/ft ²
Structodek® High Density Fiberboard, EnergyGuard™ Per	lite Recover Board	•
Minimum 0.5" thick	N/A	N/A
EnergyGuard [™] Perlite Roof Insulation		
Minimum 0.75" thick	N/A	N/A
Securock® Gypsum-Fiber Roof Board, DensDeck® Roof Bo DensDeck® Prime® Roof Board	ard, DensDeck® DuraGuard® 1	Roof Board,

Note: Top Insulation Layer is fully adhered in hot asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: Five plies of GAFGLAS[®] FlexPly^{$^{\text{TM}}$} 6 5L adhered in a full mopping of approved asphalt applied

within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's

instructions.

Or

Three or four plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

N/A

in accordance with manufacturer's instructions.

Cap Sheet: Apply a flood coat of hot asphalt applied at 60 lbs./sq. followed by gravel applied at 400 lbs./sq.

or slag applied at a rate of 300 lbs./sq.



Minimum 0.25" thick

NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 31 of 39

N/A

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or 1. Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

2. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

-150 psf. (See General Limitation #9.) **Pressure:**



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 32 of 39

Deck Type 2I: Structural Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A (17):** Insulation layers adhered with approved asphalt.

All General and System limitations apply

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, (Optional) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners (Table 3) Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation

Minimum 0.5" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). One or more layers of insulation layers shall be adhered to the deck or optional vapor barrier (when present) in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² per layer; with a maximum 12 inch insulation thickness. The base layer may be flat profiled or tapered. Intermediate layers (optional) are flat profiled when present. The top layer (optional) may be either flat profiled or tapered when present. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Fasteners	Fastener
	(Table 3)	Density/ft ²
Structodek® High Density Fiberboard, EnergyGuard™ Perlite	Recover Board	·
Minimum 0.5" thick	N/A	N/A
EnergyGuard[™] Perlite Roof Insulation		
Minimum 0.75" thick	N/A	N/A
Securock® Gypsum-Fiber Roof Board, DensDeck® Roof Board	d, DensDeck® DuraGuard®	Roof Board,
DensDeck® Prime® Roof Board		
Minimum 0.25" thick	N/A	N/A

Note: Top Insulation Layer is fully adhere in hot asphalt at applied within the EVT range and at a rate of 20-25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Over a primed concrete deck (when optional vapor barrier is not present) one ply of

GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry.

Ply Sheet: Two or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 33 of 39 **Cap Sheet:**

One ply of GAFGLAS[®] Mineral Surfaced Cap Sheet, Tri-Ply[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

OR

Apply a flood coat of hot asphalt applied within the EVT range and at a rate of 60 lbs./sq. followed by gravel applied at 400 lbs./sq. or slag applied at a rate of 300 lbs./sq.

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

- 1. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
- 2. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -150 psf. (See General Limitation #9)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 34 of 39

BUR Membrane Type:

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(18): Insulation layers adhered with approved asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Vapor Barrier:

Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 (Optional)

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhere with any approved mopping asphalt applied within the EVT range and

at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RH Polyiso Insulation,

EnergyGuard[™] RN Polyiso Insulation

Minimum 1" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present). All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet, loose laid dry. **Base Sheet:**

Two or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, or GAFGLAS® FlexPly™ 6 adhered in a **Ply Sheet:**

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or **Cap Sheet:**

GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of

Approved asphalt at 60 lbs./sq.

Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® 2.

Surface Seal SB applied at 1 to 1.5 gal./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -292.5 psf. (See General Limitation #9)



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 35 of 39

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(1): Base sheet adhered with approved asphalt.

All General and System Limitations shall apply.

Vapor Barrier: Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6,

(**Optional**) Ruberoid® 20 or Ruberoid® Dual Smooth mopped directly to deck primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then

the vapor barrier is adhered with any approved mopping asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq.

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present).

Base Sheet: Install one or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6,

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid® Dual Smooth directly to the primed deck. Adhere with any approved mopping

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Or

GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry, followed by a

mopped ply sheet listed below.

Ply Sheet: (Optional, required when used with Ruberoid® 20 or GAFGLAS® Stratavent® Eliminator™

Perforated Venting Base Sheet). One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a full mopping of approved asphalt applied within the EVT

range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.

Cap Sheet: One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or

(Optional) GAFGLAS[®] EnergyCapTM BUR Mineral Surface Cap Sheet adhered in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60

lbs./sq.

2. Topcoat[®] Membrane, Topcoat[®] MB Plus (to be used as a primer with Topcoat[®] Membrane) or Topcoat[®]

Surface Seal SB applied at 1 to 1.5 gal./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -90 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 Expiration Date: 11/06/18 Approval Date: 04/23/15 Page 36 of 39

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(2): Base sheet adhered with approved asphalt.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Vapor Barrier: Ruberoid[®] 20 or Ruberoid[®] Dual Smooth mopped directly to deck primed with ASTM D41 (Optional)

asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then the vapor barrier is adhered with any approved mopping asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq.

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, **Base Sheet:**

> GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth or Ruberoid[®] Dual Smooth directly to the primed deck. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Ply Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a

full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or **Cap Sheet:**

GAFGLAS[®] EnergyCap[™] BUR Mineral Surface Cap Sheet adhered in a full mopping of approved (Optional)

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60

2. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -457.5 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 37 of 39

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(3): Base sheet GAFGLAS[®] Stratavent[®] Eliminator[™] Perforated Venting Base Sheet is loose laid dry.

All General and System Limitations shall apply.

Install one or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, Vapor Barrier:

Ruberoid[®] 20 or Ruberoid[®] Dual Smooth mopped directly to deck primed with ASTM D41 (Optional) asphalt primer or Matrix[™] 307 Premium Asphalt Primer. The primer must be allowed to dry then

the vapor barrier is adhered with any approved mopping asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq.

Note: Concrete deck shall be primed with ASTM D41 asphalt primer or Matrix[™] 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet (when optional vapor barrier is not present).

Over a primed concrete deck (when vapor barrier is not present) one ply of GAFGLAS® **Base Sheet:**

Stratavent[®] Eliminator[™] Perforated Venting Base Sheet, loose laid dry.

Ply Sheet: Two plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly[™] 6 adhered in a full

mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in

accordance with manufacturer's instructions.

One ply of GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or **Cap Sheet:**

GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with

manufacturer's instructions.

Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen

components must be applied according to manufacturer's application instructions. All

coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at

60 lbs./sa.

Topcoat[®] Elastomeric Roofing Membrane, Topcoat[®] MB Plus (to be used as a primer with 2.

Topcoat[®] Elastomeric Roofing Membrane) or Topcoat[®] Surface Seal SB applied at 1 to 1.5 gal./sq.

3. Fibered Aluminum Roof Coating applied accordance with manufacturer's instructions.

Maximum Design

Pressure: -185 psf. (See General Limitation #9.)



NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15

Page 38 of 39

CONCRETE DECK SYSTEM LIMITATIONS:

If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used, the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, is below 275 lbf., insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA. General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY APPROVED

NOA No.: 15-0129.26 **Expiration Date: 11/06/18** Approval Date: 04/23/15 Page 39 of 39